

# Case Study ProRail



ProRail is responsible for the construction, maintenance, management and security of the Dutch rail network. ProRail manages about 6,000 trains and over 6,830 kilometres of railway, making sure that 1,200,000 passengers and 100,000 tons of goods arrive at their destination every single day. The rail network is the beating heart of the Netherlands' mobility and ProRail works on the overall geographical accessibility of the country by providing an optimal railway network.

ProRail allocates availability on the railway tracks, handles all traffic, informs carriers and passengers, builds and manages new railway stations and crossings. The organisation maintains and services existing railway tracks, switches, signals and junctions.

## The Challenge:

ProRail needed a quickly deployable surveillance solution in order to secure crucial infrastructure equipment when a heightened threat level is announced by the railway sector. This solution would ultimately lead to an increased resilience of ProRail's equipment and would facilitate prosecution of individuals.

The mobile surveillance equipment had to be deployable within 24 hours of an alert being issued. The surveillance cameras would also be used to avoid disturbance of the railway traffic by third parties or intentional criminal behaviour.

**The mobile surveillance equipment had to be completely stand-alone! Connection to the fixed network was not an option and electrical power was not available at the locations where the surveillance would be taking place.**

**The video footage had to be available for monitoring by several supervisors simultaneously, whether that be remotely, in a centralised control room, or in the direct vicinity of the cameras.**

## The Solution:

HERAS, the international specialist in outdoor security solutions, developed a completely autonomous and quickly deployable surveillance solution by combining **Wireless CCTV's 3G Dome camera** with a **Fuel Cell technology-based battery**. This combination allows ProRail to almost instantaneously deploy a remote monitoring CCTV system, without any need for fixed cabling for the video transmission or power supply.

The **WCCTV 3G Wireless Dome** is a one-box recording and transmission CCTV surveillance solution. The unit has an integrated Hard Disk for digital recording, giving users the option to view either live images or recorded footage from any remote location.

The camera itself can be controlled remotely with full pan, tilt and zoom functionality and a 360 degree field of vision.



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**By combining Wireless CCTV's 3G Dome technology with a high-capacity Fuel Cell powered battery, HERAS and WCCTV managed to develop a truly autonomous surveillance solution that can be deployed virtually instantaneously and can be left on-site for several weeks without needing any intervention.**

Any **WCCTV 3G Dome** can be used as part of this integrated solution, whether that is the newest WCCTV 3G Mini Dome or the shotgun resistant 3G Heavy Duty Wireless Dome.

Every WCCTV product contains **3G HSUPA mobile technology**, plus an additional transmission medium to maximise flexibility and portability.

The Wireless Dome systems also have **Wi-Fi technology** built in as standard, which enables cost-free, high speed downloads up to 100m away from a Wi-Fi enabled laptop. As an optional extra it is possible to request long range Wi-Fi, which enables cost-free live monitoring up to 2km (line-of-sight) away from a broadband access point.

The **Fuel Cell and battery technology** as integrated by HERAS offers organisations a truly autonomous surveillance solution that can be deployed almost instantaneously. When after several weeks of usage the electrical energy is near depletion, an alarm is triggered. Simply replacing the Fuel Cartridge restores full long-term autonomy.

An **audio broadcasting** functionality, via a mounted speaker horn, can also be added. This allows control room based supervisors to communicate directly with individuals when their behaviour is leading to dangerous situations on or near the railways.



### The Results:

*"ProRail is trying to curb the continuous growth of operational and service nuisance from crime and vandalism", said Ap van de Wouw, Operational Management, ProRail. The autonomous surveillance setup offers an effective way to tackle the aforementioned problems while being able to provide Police forces with adequate video footage allowing criminal prosecution when appropriate.*

*"During the final test phase, in the Proof of Concepts stage, Heras convincingly demonstrated the suitability of this particular surveillance solution. ProRail now has 8 such systems deployed in different areas across The Netherlands."*

**Ap van de Wouw, Operational Management, ProRail**

### Main Features and Benefits:

- Truly autonomous surveillance solution
- No need for fixed cabling
- Virtually instantaneous deployment
- Remote access to live and recorded digital footage
- Video footage simultaneously accessible by multiple users
- Multiple transmission options including 3G (HSUPA), Wi-Fi and broadband.
- Approximately 6 weeks of battery autonomy after which the Fuel Cartridge needs to be replaced (part of the service package)
- Free unrestricted Single View Software

#### Wireless CCTV Ltd - Southern Office

1 Pemberton Row, Fetter Lane, London EC4A 3ET  
Tel: +44 (0) 870 739 22 88 · Fax: +44 (0) 870 739 22 99  
sales@wcctv.com · www.wcctv.com

#### Wireless CCTV Ltd - Northern Office

Mitchell Hey Place, College Road, Rochdale, Lancashire, OL12 6AE  
Tel: +44 (0) 1706 63 11 66 · Fax: +44 (0) 1706 63 11 22  
sales@wcctv.com · www.wcctv.com

**ProRail** **HERAS**



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